

## Storm Data and Unusual Weather Phenomena - November 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>ILLINOIS, South</b>				
<b>(IL-Z075) JEFFERSON, (IL-Z080) PERRY, (IL-Z084) JACKSON</b>				
	11/17/13 10:00 CST		4K	Strong Wind (MAX 42 kt)
	11/17/13 13:30 CST		0	
<b>FRANKLIN COUNTY --- 3.0 NW CHRISTOPHER [38.00, -89.09], 2.0 N CHRISTOPHER [38.00, -89.05]</b>				
	11/17/13 12:43 CST		0	Funnel Cloud
	11/17/13 12:50 CST		0	Source: Trained Spotter
<b>WILLIAMSON COUNTY --- CARTERVILLE [37.75, -89.08]</b>				
	11/17/13 13:03 CST		0	Thunderstorm Wind (MG 61 kt)
	11/17/13 13:03 CST		0	Source: Amateur Radio
Ham radio operators reported a wind gust to 70 mph.				
<b>JEFFERSON COUNTY --- 2.3 NNE OPDYKE [38.28, -88.76], 2.4 NE OPDYKE [38.28, -88.75]</b>				
	11/17/13 13:05 CST		3K	Tornado (EF1, L: 0.15 mi , W: 25 yd)
	11/17/13 13:06 CST		0	Source: NWS Storm Survey
Several trees were snapped during this brief touchdown on the north side of Interstate 64. Peak winds were estimated near 105 mph.				
<b>WAYNE COUNTY --- SIMS [38.37, -88.53], 1.0 NE FAIRFIELD [38.39, -88.36]</b>				
	11/17/13 13:08 CST		0.15M	Tornado (EF2, L: 9.48 mi , W: 150 yd)
	11/17/13 13:20 CST		0	Source: NWS Storm Survey
This tornado touched down on the southwest side of Sims. It quickly intensified and destroyed a double wide mobile home on the northeast side of Sims. The tornado continued northeast and crossed Highway 15, producing tree and power pole damage. The tornado moved east across the Wayne County landfill, damaging the building on the grounds. The tornado continued into the north side of Fairfield, producing mainly minor damage to homes. Peak winds in this tornado were estimated near 135 mph. The maximum intensity was on the northeast side of Sims.				
<b>WILLIAMSON COUNTY --- MARION [37.73, -88.93]</b>				
	11/17/13 13:08 CST		0	Funnel Cloud
	11/17/13 13:08 CST		0	Source: Public
<b>WAYNE COUNTY --- 4.2 NNE GOLDEN GATE [38.42, -88.17], 4.9 NE GOLDEN GATE [38.43, -88.15]</b>				
	11/17/13 13:29 CST		10K	Tornado (EF1, L: 1.03 mi , W: 100 yd)
	11/17/13 13:31 CST		0	Source: NWS Storm Survey
This tornado began in extreme eastern Wayne County about one mile from the Edwards County line. The peak intensity rating in Wayne County was EF-1, but the tornado strengthened to EF-2 in Edwards County. In Wayne County, damage was mainly to trees, many of which were snapped or uprooted. The tornado moved into Edwards County. This tornado was spawned by the same supercell that produced the EF-2 tornado that tracked from Sims to Fairfield in Wayne County.				
<b>EDWARDS COUNTY --- 3.9 SW BLACK [38.43, -88.15], 1.3 W BONE GAP [38.45, -88.02]</b>				
	11/17/13 13:31 CST		0.20M	Tornado (EF2, L: 6.83 mi , W: 300 yd)
	11/17/13 13:44 CST		0	Source: NWS Storm Survey
The tornado crossed into Edwards County from Wayne County. Numerous trees were snapped or uprooted. A new addition to a house was destroyed. An attached garage was destroyed, with two vehicles turned 180 degrees. Two 100-year-old barns were totally destroyed. Several 100-year-old trees were snapped or uprooted. Other residences in the area sustained minor damage. The estimated peak winds in this tornado were 130 mph. The maximum intensity was attained just west of Illinois Route 130, almost due north of Albion. A second shorter track EF-2 tornado occurred simultaneously just south of this tornado. Both tornadoes were witnessed on the ground at the same time. This tornado was spawned by the same supercell that produced the EF-2 tornado that tracked from Sims to Fairfield in Wayne County.				
<b>EDWARDS COUNTY --- 4.4 SW BLACK [38.42, -88.15], 2.7 SSE BLACK [38.44, -88.07]</b>				
	11/17/13 13:33 CST		0.15M	Tornado (EF2, L: 4.14 mi , W: 100 yd)
	11/17/13 13:38 CST		0	Source: NWS Storm Survey

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This tornado travelled just south of and nearly parallel to another EF-2 tornado. Two machine sheds were destroyed along with a barn. Several trees were snapped. More than one eyewitness saw both tornadoes on the ground at the same time. Peak winds were estimated near 110 mph. This tornado was spawned by the same supercell that produced the EF-2 tornado that tracked from Sims to Fairfield in Wayne County.				
<b>SALINE COUNTY --- HARRISBURG [37.73, -88.55]</b>				
	11/17/13 13:35 CST		4K	Thunderstorm Wind (EG 52 kt)
	11/17/13 13:35 CST		0	Source: Trained Spotter
Downed tree limbs were reported.				
<b>WABASH COUNTY --- 1.3 N GARDS PT [38.49, -87.92], 1.6 SE ADAMS CORNER [38.50, -87.73]</b>				
	11/17/13 13:44 CST		0.25M	Tornado (EF2, L: 10.28 mi , W: 225 yd)
	11/17/13 13:54 CST	1	0	Source: NWS Storm Survey
Four homes were damaged, and two mobile homes were destroyed. One mobile home was thrown across the road and the frame was wrapped around a tree. One woman inside was injured. Another nearby mobile home was turned on its side. One home had part of the roof lifted off. The garage of the residence was destroyed, but most of the articles inside were left untouched. Debris from this residence was thrown several hundred yards. Several outbuildings were destroyed. Peak winds in this tornado were estimated near 125 mph. The peak intensity occurred almost due north of Mount Carmel. This tornado was spawned by the same supercell that produced EF-2 tornadoes in Wayne and Edwards Counties.				
<b>PULASKI COUNTY --- MOUND CITY [37.08, -89.17]</b>				
	11/17/13 13:48 CST		0	Funnel Cloud
	11/17/13 13:48 CST		0	Source: Trained Spotter
The funnel cloud was reported to be moving eastward.				
<b>MASSAC COUNTY --- 0.5 NW BROOKPORT [37.12, -88.64], 3.0 E UNIONVILLE [37.12, -88.50]</b>				
	11/17/13 14:20 CST	3	5.50M	Tornado (EF3, L: 7.77 mi , W: 500 yd)
	11/17/13 14:26 CST	33	0	Source: NWS Storm Survey
The tornado crossed the Ohio River from McCracken County, Kentucky into Massac County, Illinois. Video of the tornado taken by a barge operator as it crossed the Ohio River indicated it was completely rain-wrapped. This long-track tornado attained its peak intensity as it came onshore into Brookport, a small community along the Ohio River. Peak winds here were estimated near 145 mph. About a half dozen mobile homes were obliterated. Dozens of mobile homes were destroyed, many of which were blown 100 feet or more. Three mobile home residents were killed. A 62-year-old woman died at a local hospital within hours of sustaining blunt force trauma injuries in the tornado. A 58-year-old woman died at her residence as a result of blunt force trauma injuries. A 56-year-old man also died of blunt force trauma injuries sustained at his residence. An exact injury count was unavailable, but local hospitals reported over two dozen injuries. The Metropolis hospital reported 15 victims were brought to the emergency room, with no patient admissions. Three patients were transferred to other hospitals by air or ambulance. Injuries ranged from cuts and scrapes to broken bones and head injuries. One home was leveled. Dozens of homes, garages, storage buildings, businesses, and other buildings were structurally damaged. Emergency management officials reported 233 residences were affected from Brookport east to the Pope County line. 130 of those homes were habitable with minor to moderate damage, 27 were uninhabitable, and 76 homes were destroyed. 184 were located in the city of Brookport, and 49 were outside the city limits. Several cars and a school bus were tossed around. Hundreds if not thousands of trees were snapped and uprooted. The tornado caused some minor damage to guard rails on the Ohio River bridge that carries traffic from Paducah to Brookport on U.S. Highway 45. The tornado continued east along Unionville Road, eventually crossing into Pope County. The total path length of this tornado was 42 miles. The parent supercell tracked from southeast Missouri across the Mississippi River through the Paducah area, then east to the Kentucky Lake area of western Kentucky.				
Direct Fatalities: F58MH, M56MH, F63MH				
<b>POPE COUNTY --- 2.5 W NEW LIBERTY [37.12, -88.50], 0.5 SW HAMLETSBURG [37.12, -88.44]</b>				
	11/17/13 14:26 CST		0.50M	Tornado (EF2, L: 3.30 mi , W: 300 yd)
	11/17/13 14:29 CST		0	Source: NWS Storm Survey
The tornado crossed into Pope County from Massac County. The most intense damage in Pope County was rated EF-2 with estimated 130 mph peak winds. At least two mobile homes were completely destroyed. The mobile home units separated from their frame undercarriage and were rolled several times. The tornado continued east across the Ohio River into Livingston County, Kentucky. The total path length of this tornado was 42 miles. The parent supercell tracked from southeast Missouri across the Mississippi River through the Paducah area, then east to the Kentucky Lake area of western Kentucky.				
<b>Supercell thunderstorms developed along a pre-frontal low pressure trough over Missouri and then moved east across southern Illinois. Very strong wind fields coupled with moderate amounts of instability resulted in several supercell thunderstorms, some of which produced tornadoes. The storms moved through the warm sector of a low pressure system characterized by mixed-layer capes around 1000 j/kg. Southerly surface winds transported rich low-level moisture north of the Ohio River, with dew points in the mid 60's. Areas of partial sunshine immediately preceding the convection bolstered instability. The low level wind shear was very strong, with 0 to 1 km storm-relative helicity at or above 500. Strong southerly surface winds ahead of the storms gusted to around 45 mph from Mount Vernon to Carbondale during the midday hours.</b>				

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*Aerial photo of tornadic debris field in Brookport, Illinois taken by Eddie Girt.*

### INDIANA, Southwest

**SPENCER COUNTY --- 1.5 NE ROCKPORT [37.90, -87.04], 1.6 NNW ROCKPORT [37.90, -87.06], 1.5 WSW ROCKPORT [37.87, -87.07], 0.9 SSE ROCKPORT [37.87, -87.04]**

11/17/13 07:00 CST	0	Flood (due to Heavy Rain)
11/17/13 09:00 CST	0	Source: Public

Water was too deep along several primary and secondary roads for vehicles to pass through in numerous locations.

**SPENCER COUNTY --- 1.3 NW DALE [38.18, -87.00], 1.8 SW DALE [38.15, -87.01], 1.1 SSE DALE [38.16, -86.97], 0.8 NE DALE [38.18, -86.97]**

11/17/13 15:19 CST	0	Flash Flood (due to Heavy Rain)
11/17/13 17:00 CST	0	Source: Trained Spotter

Six inches of water was flowing across a road in Dale.

**SPENCER COUNTY --- 1.1 E EUREKA [37.88, -87.20]**

11/17/13 15:31 CST	0	Funnel Cloud
11/17/13 15:31 CST	0	Source: Trained Spotter

A trained spotter reported a funnel cloud accompanied by a roaring sound.

**SPENCER COUNTY --- 1.8 ENE GRANDVIEW [37.94, -86.95]**

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	11/17/13 15:33 CST		0	Funnel Cloud
	11/17/13 15:33 CST		0	Source: Trained Spotter

Organized thunderstorms moved east along and ahead of a cold front as it crossed southern Illinois into southwest Indiana during the late afternoon. Compared to places further south, the warm sector supportive of severe storms was very narrow over southwest Indiana. However, very strong ascent in the vicinity of the front maintained a line of strong storms, including a couple that produced funnel clouds. Heavy rain caused some isolated flooding. The most persistent heavy rain occurred during the early morning hours in association with a strong southwest low level jet.

### KENTUCKY, Southwest

#### (KY-Z008) MARSHALL

11/17/13 01:00 CST	1K	Strong Wind (MAX 43 kt)
11/17/13 04:00 CST	0	

#### BALLARD COUNTY --- 1.9 NE LA CENTER [37.09, -88.95]

11/17/13 13:54 CST	0	Funnel Cloud
11/17/13 13:54 CST	0	Source: Trained Spotter

A funnel cloud was reported over Ballard County in the La Center area.

#### BALLARD COUNTY --- OSCAR [37.13, -89.03], KEVIL [37.08, -88.90]

11/17/13 13:54 CST	60K	Thunderstorm Wind (EG 61 kt)
11/17/13 14:04 CST	0	Source: Trained Spotter

Several barns and several trees were blown down in eastern Ballard County. The damage extended from Highway 310 between La Center and Oscar to Kevil.

#### MCCRACKEN COUNTY --- 0.2 SE WOODVILLE [37.10, -88.88], 1.7 NNW ROWLANDTOWN [37.12, -88.64]

11/17/13 14:05 CST	0.35M	Tornado (EF2, L: 13.42 mi , W: 200 yd)
11/17/13 14:20 CST	1	Source: NWS Storm Survey

The tornado began very close to the Ballard County line. The most intense damage in McCracken County was rated EF-2 at a uranium enrichment plant just west of Grahamville. At that location, three metal roll-up doors on the main processing building were blown in. Some wall panels on the large processing building were blown out. The tops of three steel power transmission towers within the plant grounds were bent over. A few power lines were snapped. Cooling tower shrouds were blown off. Some siding on a cooling tower was damaged. One sport utility vehicle was shoved 30 yards into a ditch. An off-duty employee of the plant was seriously injured when tornado debris, including another car, was blown into his vehicle. Elsewhere in the county, an abandoned mobile home was demolished, though the undercarriage remained. Many houses had damage to shingles and siding. Some metal roofs were slightly damaged. A wooden fence was ripped from the ground. Chain link fences were blown over. Trees were uprooted or snapped off, some striking homes. A church foyer was destroyed. Road signs were bent. The average path width was 100 yards in McCracken County. The tornado continued east across the Ohio River into Massac County, Illinois, where it strengthened to EF-3 intensity. The total path length of this tornado was 42 miles. The parent supercell tracked from southeast Missouri across the Mississippi River through the Paducah area, then east to the Kentucky Lake area of western Kentucky.

#### LIVINGSTON COUNTY --- 2.0 WSW SMITHLAND [37.12, -88.44], 3.2 NNE IUKA [37.12, -88.21]

11/17/13 14:29 CST	0.40M	Tornado (EF2, L: 12.21 mi , W: 300 yd)
11/17/13 14:45 CST	0	Source: NWS Storm Survey

The tornado moved across the Ohio River from Pope County, Illinois into Livingston County, Kentucky. The tornado passed just south of Smithland. The most intense damage in Livingston County was rated EF-2 with estimated 125 mph peak winds. Several mobile homes were destroyed. Thousands of trees were snapped or uprooted as the tornado passed mainly through forested hilly terrain. The black tornado funnel was videotaped as it moved across parts of the county. The tornado continued east into Lyon County, Kentucky. The total path length of this tornado was 42 miles. The parent supercell tracked from southeast Missouri across the Mississippi River through the Paducah area, then east to the Kentucky Lake area of western Kentucky.

#### MCCRACKEN COUNTY --- 2.0 S (PAH)BARKLEY ARPT PA [37.04, -88.77]

11/17/13 14:30 CST	0	Thunderstorm Wind (EG 56 kt)
11/17/13 14:30 CST	0	Source: Trained Spotter

A trained spotter estimated a wind gust to 65 mph.

#### UNION COUNTY --- 1.7 SW CHAPMAN [37.70, -87.94], 3.6 ENE WAVERLY [37.73, -87.76]

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	11/17/13 14:41 CST		0.50M	Tornado (EF3, L: 10.31 mi , W: 200 yd)
	11/17/13 14:55 CST		0	Source: NWS Storm Survey

The tornado began just northwest of Morganfield, then tracked north of and parallel to U.S. Highway 60. A church roof was lifted and blown sideways. There were numerous homes with roof damage and some substantial structural damage. One home sustained total roof loss. Numerous hardwood trees were snapped or uprooted, some of which were very large. Several barns and outbuildings were destroyed. One mobile home slid off its foundation. Another mobile home disintegrated, with no walls, flooring, or roofing found. The steel I-beam undercarriage was twisted. A large metal storage building was destroyed. The steel I-beams supporting the roof were twisted. This metal building, about a mile north of Waverly, is where the most intense damage was located. Peak winds were estimated near 145 mph. There were several visual sightings of the tornado by trained spotters, along with video. The tornado continued across the Henderson County line into the Corydon area.

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### LYON COUNTY --- 6.4 NW KUTTAWA [37.12, -88.21], 3.5 N KUTTAWA [37.12, -88.11]

11/17/13 14:45 CST	10K	Tornado (EF1, L: 5.80 mi , W: 100 yd)
11/17/13 14:56 CST	0	Source: NWS Storm Survey

This long-track tornado entered Lyon County from Livingston County. The most intense damage in Lyon County was rated EF-1 with estimated 95 mph peak winds. The damage consisted primarily of uprooted trees. Damage in Lyon County was relatively light since the tornado was in its weakening stage before it lifted. The total path length of this tornado, which started west of Paducah, was 42 miles.

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### MCCRACKEN COUNTY --- LONE OAK [37.03, -88.67], REIDLAND [37.02, -88.53]

11/17/13 14:45 CST	0	Hail (1.25 in)
11/17/13 14:49 CST	0	Source: Trained Spotter

Quarter to half-dollar size hail occurred from Lone Oak to Reidland.

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### HENDERSON COUNTY --- 0.4 WNW KINGS MILLS [37.73, -87.76], 1.2 NE CORYDON [37.74, -87.69]

11/17/13 14:55 CST	0.25M	Tornado (EF2, L: 3.81 mi , W: 200 yd)
11/17/13 15:00 CST	0	Source: NWS Storm Survey

The tornado entered Henderson County just north of U.S. Highway 60 near the community of Kings Mill. The tornado passed through the center of Corydon just before lifting on the east side of town. The most intense damage in Henderson County was in Corydon, where the roof was blown off a house and some other houses sustained considerable roof damage. Peak winds at this location were estimated near 120 mph. The other damage in Henderson County was rated EF-0 or EF-1.

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### CALDWELL COUNTY --- FREDONIA [37.20, -88.07]

11/17/13 14:57 CST	0	Hail (1.00 in)
11/17/13 14:57 CST	0	Source: Trained Spotter

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### CALDWELL COUNTY --- 3.0 NW PRINCETON [37.15, -87.91], 1.0 NE PRINCETON [37.13, -87.86]

11/17/13 15:18 CST	0.20M	Tornado (EF1, L: 3.16 mi , W: 200 yd)
11/17/13 15:25 CST	0	Source: NWS Storm Survey

A large metal building sustained partial loss of the roof and a wall. Several power poles were snapped. The porch was lifted up from the front of a house. Several homes and businesses sustained partial shingle loss. Dozens of trees were snapped or uprooted. The Western Kentucky Parkway was shut down in Princeton after a large power transmission line fell onto the roadway near a sub-station. Peak winds were estimated near 100 mph. The maximum intensity of the tornado was at the Western Kentucky Parkway interchange with Kentucky Route 91 in Princeton.

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### CALDWELL COUNTY --- 2.0 SE PRINCETON [37.10, -87.84]

11/17/13 15:23 CST	0	Thunderstorm Wind (MG 55 kt)
11/17/13 15:23 CST	0	Source: Mesonet

A wind gust to 63 mph was measured at the Kentucky mesonet site.

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### HOPKINS COUNTY --- 1.1 WNW ROMNEY [37.15, -87.49], 1.6 E MT CARMEL [37.17, -87.34]

11/17/13 15:32 CST	0.70M	Tornado (EF3, L: 8.23 mi , W: 200 yd)
11/17/13 15:40 CST	1	Source: NWS Storm Survey

The tornado touched down a couple of miles southwest of Nortonville, then proceeded east across the Pennyrile Parkway. Four homes were destroyed, including one double wide mobile home. The mobile home was blown about 75 yards before coming to rest against trees. The exterior walls of a permanent home collapsed. A dozen homes received minor to moderate damage. Several sheds and barns were destroyed. Hundreds of trees, some of which were very large, were snapped and uprooted. There was one minor injury. Peak winds were estimated near 140 mph. The most intense damage occurred about two miles south-southeast of Nortonville. This tornado was spawned by a supercell that originated over southeast Missouri and produced a 42-mile long EF-3 tornado from the Paducah area to Lyon County, Kentucky.

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<b>MUHLENBERG COUNTY --- 1.3 SW BANCROFT [37.16, -87.27], 1.0 S BANCROFT [37.16, -87.25]</b>				
	11/17/13 15:50 CST		0.10M	Tornado (EF1, L: 0.85 mi , W: 80 yd)
	11/17/13 15:51 CST		0	Source: NWS Storm Survey

This fast-moving tornado touched down near two older mobile homes, tearing parts of the roof off both homes and toppling trees. The tornado then moved east-southeast up a knoll, where it buckled the west-facing door of an attached garage. The side walls of the garage were blown out, including part of the cinder block foundation. Several large trees around the home were either uprooted or snapped. Patio furniture was scattered up to 100 yards to the east. The tornado continued over open pasture before tearing the roof and two walls off a metal outbuilding and uprooting several trees. Just before crossing Highway 189, the patio roof of a brick home was torn off and blown 100 yards to the northeast, along with tree damage. The tornado continued 200 yards east of Highway 189, where it snapped several tree trunks. Peak winds were estimated near 100 mph. This tornado was spawned by a supercell that originated over southeast Missouri and produced a 42-mile long EF-3 tornado from the Paducah area to Lyon County, Kentucky.

<b>CALLOWAY COUNTY --- DEXTER [36.75, -88.28]</b>				
	11/17/13 16:24 CST		3K	Thunderstorm Wind (EG 52 kt)
	11/17/13 16:24 CST		0	Source: Public

Large tree limbs were blown down.

<b>TRIGG COUNTY --- 2.8 SSW CADIZ [36.84, -87.85]</b>				
	11/17/13 16:40 CST		3K	Thunderstorm Wind (EG 52 kt)
	11/17/13 16:40 CST		0	Source: Trained Spotter

A large tree was blown down, blocking U.S. Highway 68 near Highway 274.

Clusters of supercell thunderstorms moved rapidly east around 50 knots across western Kentucky during the afternoon. Some of these storms produced tornadoes. Low level wind shear was very strong, with 0 to 1 km bulk shear near 50 knots. This shear was present amidst decent instability for late fall, with mixed-layer capes of 500 to 1000 J/kg. One supercell cluster moved east from the Paducah area along the Western Kentucky Parkway. The other supercell cluster moved east across the far northwest counties of Kentucky, passing south of Evansville and then across the Owensboro area. The storms initiated over Missouri along a pre-frontal low pressure trough, then moved east across the Lower Ohio Valley. Strong southerly surface winds ahead of the storms gusted up to 50 mph during the early morning hours. An off-duty meteorologist measured a gust to 50 mph in Calvert City in Marshall County.



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*Photo of the destroyed metal storage building near Waverly where the most intense damage was located. NWS damage survey photo.*

### MISSOURI, Southeast

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER

11/17/13 09:00 CST	7K	Strong Wind (MAX 39 kt)
11/17/13 13:30 CST	0	

PERRY COUNTY --- 2.0 SW FROHNA [37.61, -89.66], 1.9 SW FROHNA [37.61, -89.65]

11/17/13 12:26 CST	1K	Tornado (EF0, L: 0.10 mi , W: 50 yd)
11/17/13 12:27 CST	0	Source: NWS Storm Survey

Peak winds were estimated near 70 mph in this brief tornado. Numerous small to medium trees and tree limbs were snapped.

SCOTT COUNTY --- 3.3 WNW VANDUSER [37.02, -89.73], 3.7 N PORTER [37.03, -89.48]

11/17/13 13:07 CST	1M	Tornado (EF3, L: 14.25 mi , W: 600 yd)
11/17/13 13:31 CST	0	Source: NWS Storm Survey

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Two stick built homes were destroyed. One of these homes had complete roof loss, as well as most exterior walls and some interior walls blown out. A vehicle was blown out of the garage. The other home had a large portion of the roof blown off and some exterior walls blown out. Three empty railroad cars were overturned. A 60 by 80 foot building was blown away. Three mobile homes were completely destroyed. Numerous other mobile homes sustained moderate to major damage. Several irrigation systems were blown around. Many dozens of large or very large trees were snapped. Nine power poles were snapped. The tornado was videotaped as it crossed parts of the county. Peak winds were estimated near 140 mph. This tornado was spawned by the supercell thunderstorm that would later spawn a 42-mile long EF-3 tornado in western Kentucky and the southern tip of Illinois.				
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SCOTT COUNTY --- BENTON [37.10, -89.57]	11/17/13 13:18 CST		0	Hail (0.75 in)
	11/17/13 13:18 CST		0	Source: Trained Spotter

Supercell thunderstorms developed along a pre-frontal low pressure trough over southeast Missouri. Very strong wind fields coupled with moderate amounts of instability resulted in a couple of supercell thunderstorms, both of which produced tornadoes. The storms moved through the warm sector of a low pressure system characterized by mixed-layer capes around 1000 j/kg. Southerly surface winds transported rich low-level moisture north of the Ohio River, with dew points in the mid 60's. Areas of partial sunshine immediately preceding the convection bolstered instability. The low level wind shear was very strong, with 0 to 1 km storm-relative helicity at or above 500. Strong southerly surface winds ahead of the storms gusted to around 45 mph during the late morning and early afternoon hours. These strong winds were along and northwest of a line from Poplar Bluff to Cape Girardeau.